

# **LAP15 Rec'd PCT/PTO 07 JUN 2006**

Receipt is hereby acknowledged for the following in the U.S. Patent and Trademark Office:

Applicant: NAGASHIMA et al.

Title: NEAR INFRARED ABSORBENT GREEN GLASS COMPOSITION, AND LAMINATED GLASS USING THE SAME

Docket: J4434.97USWO

Express Mail No.: EV 858603674 US

Date of Deposit: JUNE 7, 2006

- ☒ Transmittal sheet, in duplicate, containing Certificates under 37 CFR 1.10.
- ☒ National Stage PCT Patent Application: Spec. 19 pgs; 29 claims (4 pages); Abstract- 1 pg. The fee has been calculated as shown below in the 'Claims as Filed' table.
- ☒ A signed Combined Declaration and Power of Attorney
- ☒ Assignment of the Invention to Nippon Sheet Glass Company, Limited, Recordation Form Cover Sheet
- ☒ Checks in the amount of \$1450.00 for the Filing Fee and \$40.00 for the Assignment Recording Fee
- ☒ Information Disclosure Statement, Form 1449, 4 references
- ☒ Application Data Sheet, 5 pages
- ☒ Other: Form PTO-1390, translation of the International Application into English, International Publication page of WO 2005/063643 A1, Preliminary Amendment, marked-up copy of the specification, clean copy (Substitute) specification, Form PCT/ISA/210 (in English and Japanese languages), Form PCT/IB/301, Form PCT/IB/304, Form PCT/IB/308 (first and second/supplementary notices), PCT Request (in Japanese language).
- ☒ Return postcard

Patent:

DPM:nel



Best Available Copy



## PATENT COOPERATION TREATY

PCT/JP2004/019368

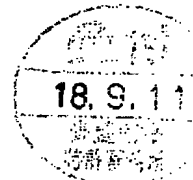
From the INTERNATIONAL BUREAU

**PCT**

NOTIFICATION OF TRANSMITTAL  
OF COPIES OF TRANSLATION  
OF THE INTERNATIONAL PRELIMINARY REPORT  
ON PATENTABILITY  
(CHAPTER I OR CHAPTER II  
OF THE PATENT COOPERATION TREATY)  
(PCT Rules 44bis.3(c) and 72.2)

To:

KAMADA, Koichi  
7th Fl., Tomoe Marion Bldg.  
4-3-1, Nishitenma, Kita-ku  
Osaka-shi, Osaka 5300047  
JAPON



Date of mailing (day/month/year) 31 August 2006 (31.08.2006)	
Applicant's or agent's file reference FNS04016WO	<b>IMPORTANT NOTIFICATION</b>
International application No. PCT/JP2004/019368	International filing date (day/month/year) 24 December 2004 (24.12.2004)
Applicant NIPPON SHEET GLASS COMPANY, LIMITED et al	

## 1. Transmittal of the translation to the applicant.



The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).



The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

## 2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

## 3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Authorized officer

Masashi Honda

## PATENT COOPERATION TREATY

## PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference FNS04016WO	FOR FURTHER ACTION	See item 4 below
International application No. PCT/JP2004/019368	International filing date (day/month/year) 24 December 2004 (24.12.2004)	Priority date (day/month/year) 26 December 2003 (26.12.2003)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant NIPPON SHEET GLASS COMPANY, LIMITED		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Box No. I | Basis of the report   |
| <input type="checkbox"/> Box No. II           | Priority  |
| <input type="checkbox"/> Box No. III          | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  |
| <input type="checkbox"/> Box No. IV           | Lack of unity of invention  |
| <input checked="" type="checkbox"/> Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> Box No. VI           | Certain documents cited   |
| <input type="checkbox"/> Box No. VII          | Certain defects in the international application  |
| <input type="checkbox"/> Box No. VIII         | Certain observations on the international application   |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Date of issuance of this report 22 August 2006 (22.08.2006) Authorized officer Masashi Honda e-mail: pt08@wipo.int
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## PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:

**TRANSLATION**  
**PCT**

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing (day/month/year)																									
Applicant's or agent's file reference <b>FNS04016WO</b>																									
FOR FURTHER ACTION See paragraph 2 below																									
International application No. <b>PCT/JP2004/019368</b>	International filing date (day/month/year) <b>24.12.2004</b>																								
Priority date (day/month/year) <b>26.12.2003</b>																									
International Patent Classification (IPC) or both national classification and IPC																									
Applicant <b>NIPPON SHEET GLASS COMPANY, LIMITED</b>																									
<p>1. This opinion contains indications relating to the following items:</p> <table><tr><td><input checked="" type="checkbox"/></td><td>Box No. I</td><td>Basis of the opinion</td></tr><tr><td><input type="checkbox"/></td><td>Box No. II</td><td>Priority</td></tr><tr><td><input type="checkbox"/></td><td>Box No. III</td><td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td></tr><tr><td><input type="checkbox"/></td><td>Box No. IV</td><td>Lack of unity of invention</td></tr><tr><td><input checked="" type="checkbox"/></td><td>Box No. V</td><td>Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td></tr><tr><td><input type="checkbox"/></td><td>Box No. VI</td><td>Certain documents cited</td></tr><tr><td><input type="checkbox"/></td><td>Box No. VII</td><td>Certain defects in the international application</td></tr><tr><td><input type="checkbox"/></td><td>Box No. VIII</td><td>Certain observations on the international application</td></tr></table>		<input checked="" type="checkbox"/>	Box No. I	Basis of the opinion	<input type="checkbox"/>	Box No. II	Priority	<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	<input type="checkbox"/>	Box No. IV	Lack of unity of invention	<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	<input type="checkbox"/>	Box No. VI	Certain documents cited	<input type="checkbox"/>	Box No. VII	Certain defects in the international application	<input type="checkbox"/>	Box No. VIII	Certain observations on the international application
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<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement																							
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<input type="checkbox"/>	Box No. VII	Certain defects in the international application																							
<input type="checkbox"/>	Box No. VIII	Certain observations on the international application																							
<p>2. FURTHER ACTION</p> <p>If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.</p> <p>If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.</p> <p>For further options, see Form PCT/ISA/220.</p>																									
<p>3. For further details, see notes to Form PCT/ISA/220.</p>																									
Name and mailing address of the ISA/IP	Authorized officer																								
Facsimile No.	Telephone No.																								

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/019368

Box No. 1

Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This opinion has been established on the basis of a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
- a. type of material
- ☐ a sequence listing
- ☐ table(s) related to the sequence listing
- b. format of material
- ☐ in written format
- ☐ in computer readable form
- c. time of filing/furnishing
- ☐ contained in the international application as filed.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY		International application No. PCT/JP2004/019368
<b>Box No. V</b>	<b>Reasoned statement under Rule 43bis 1(a)(i) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement</b>	
<b>1. Statement</b>		
Novelty (N)	Claims	YES
	Claims 1-29	NO
Inventive step (IS)	Claims	YES
	Claims 1-29	NO
Industrial applicability (IA)	Claims 1-29	YES
	Claims	NO
<b>2. Citations and explanations:</b>		
<p>Document 1: JP 10-297934 A (Central Glass Co., Ltd.) 10 November 1998, claims; paragraphs 0016, 0017, 0023; examples 1-3</p> <p>Document 2: JP 9-208254 A (Central Glass Co., Ltd.) 12 August 1997, claims; paragraph 0037; examples 1, 3-5</p> <p>Document 3: JP 10-265239 A (Nippon Sheet Glass Co., Ltd.) 06 October 1998, paragraphs 0031-0035; examples 4, 7-9 &amp; US 6046122 A, claims; column 4, lines 29-56; examples 4, 7-9</p> <p>Document 1 describes a glass composition and laminated glass satisfying all the requirements for the inventions of claims 1-29 of the present application.</p> <p>Document 2 describes a glass composition and laminated glass satisfying all the requirements for the inventions of claims 1-9 and 18-29 of the present application.</p> <p>Document 3 describes a glass composition satisfying all the requirements for the inventions of claims 1-7 and 18-20 of the present application.</p> <p>The inventions of claims 23-29 do not appear to involve an inventive step based on documents 1, 2 and document 3.</p> <p>Document 3 does not describe the embodiment of a laminated glass, however, selecting the embodiment of the laminated glass to be used as a glass for motor vehicles is a well-known technology as can be seen in documents 1 and 2.</p>		